

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, **Rosen, Ni, Florence, Fiscella, Wei, Baker, Birse, Young, Komatsoulis, Moore and Soppet** hereby sells, assigns, transfers, and sets over to **Human Genome Sciences, Inc.** ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries.

- (a) in and to the invention(s) known as 25 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 6/14/01, 6/11/01, 6/18/01, 6/11/01, 6/12/01, 6/11/01, 6/13/01, 6/27/01, 6/14/01, and 6/14/01 (also known as United States Application No. 09/781,417, filed February 13, 2001), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

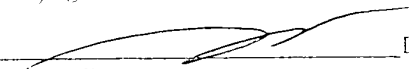
Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

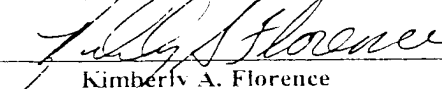
Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

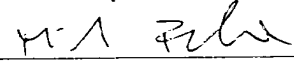
Each of the undersigned hereby grants the power to James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Michele Wales (Reg. No. 43,975), Jonathan Klein (Reg. No. 41,119), Joseph Kenny (Reg. No. 43,710), and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recording of this document.

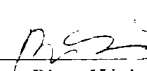
IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s).

Inventor's Signature:  Date: 6/14/01  
Craig A. Rosen

Inventor's Signature:  Date: 6/14/01  
Jian Ni

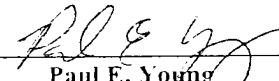
Inventor's Signature:  Date: 6/18/01  
Kimberly A. Florence

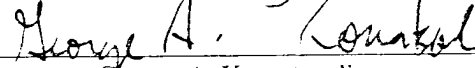
Inventor's Signature:  Date: 6/14/01  
Michele Fiscella

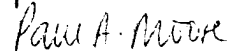
Inventor's Signature:  Date: 6/12/01  
Ping Wei

Inventor's Signature:  Date: 6/11/01  
Kevin P. Baker

Inventor's Signature:  Date: 6/13/01  
Charles E. Birse

Inventor's Signature:  Date: 6/27/01  
Paul E. Young

Inventor's Signature:  Date: 14 June 01  
George A. Komatsoulis

Inventor's Signature:  Date: 6/14/01  
Paul A. Moore

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Daniel R. Soppet

## ASSIGNMENT

For good and valuable consideration, the receipt of which is hereby acknowledged, each of the undersigned, Rosen, Ni, Florence, Fiscella, Wei, Baker, Birse, Young, Komatsoulis, Moore and Soppet hereby sells, assigns, transfers, and sets over to Human Genome Sciences, Inc. ("Assignee") having a place of business at 9410 Key West Avenue, Rockville, MD 20850, its successors, assigns and legal representatives, his her entire right, title and interest, including the right to sue and collect for all past, present and future damages, for the United States of America, including all its territories and possessions, and all other countries.

- (a) in and to the invention(s) known as 25 Human Secreted Proteins for which application(s) for patent in the United States of America has (have) been executed by the undersigned on 6/12/01 (also known as United States Application No. 09/781,417, filed February 13, 2001), in any and all applications thereon, in any and all Patent(s) therefor, and
- (b) in any and all applications that claim the benefit of the patent application listed above in part (a), including continuing (continuation, divisional) applications, reissues, extensions, renewals and reexaminations of the patent application or patent therefor listed above in part (a), to the full extent of the term or terms for which patents issue, and
- (c) in any and all inventions described in the patent application listed above in part (a), and in any and all forms of intellectual and industrial property protection derivable from such patent application, and that are derivable from any and all continuing applications, reissues, extensions, renewals, and examinations of such patent application, including, without limitation, patents, applications, utility models, inventor's certificates, and designs together with the right to file applications therefor; and including the right to claim the same priority rights from any previously filed applications under the International Agreement for the Protection of Industrial Property, or any other international agreement, or the domestic laws of the country in which any such application is filed, as may be applicable;

all such rights, title and interest to be held and enjoyed by the above-named Assignee, its successors, legal representatives and assigns to the same extent as all such rights, title and interest would have been held and enjoyed by the Assignor had this assignment and sale not been made.

Each of the undersigned further agrees that said Assignee may apply for and receive patent(s) for said invention(s) in its own name; and agrees to execute all papers necessary in connection with said application(s) and any continuing application(s) (continuation, divisional, or continuation-in-part), substitutes, renewals, reissues, reexaminations, extensions, and all other patent applications on all such invention(s), including all rightful oaths, declarations, powers of attorney and other papers; and agrees to execute separate assignments in connection with such application(s) as the Assignee may deem necessary and expedient; and agrees to communicate to said Assignee, its successors, assigns, and representatives all facts known to the undersigned relating to said invention(s) and the history thereof; and agrees to cooperate fully and completely with said Assignee, its successors, assigns, and representatives in securing, maintaining, and enforcing proper patent protection for said invention(s) and for vesting title to said invention(s) and all patent applications and all patents on said invention(s) in Assignee, its successors, assigns and representatives.

Each of the undersigned agrees to execute all papers necessary in connection with any interference that may be declared or litigation that may be instituted concerning the application(s) or patent(s) referred to above and to cooperate fully and completely with the Assignee, its successors, assigns, and representatives in obtaining evidence and going forward with such interference or litigation, including providing testimonial evidence.

Each of the undersigned hereby represents and warrants to Assignee, its successors, assigns and representatives that no assignment, grant, mortgage, license or other right or agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned and that full right to convey the same as expressed herein is possessed by the undersigned.

Each of the undersigned hereby grants the power to James H. Davis (Reg. No. 40,582), Kenley Hoover (Reg. No. 40,302), Michele Wales (Reg. No. 43,975), Jonathan Klein (Reg. No. 41,119), Joseph Kenny (Reg. No. 43,730), and Mark J. Hyman (Reg. No. 46,789) of Human Genome Sciences, Inc., 9410 Key West Avenue, Rockville, MD, 20850 to insert on this Assignment any further identification which may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document.

IN WITNESS WHEREOF, this Assignment is executed by the undersigned on the date(s) opposite their signature(s):

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Craig A. Rosen

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Jian Ni

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kimberly A. Florence

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Michele Fiscella

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Ping Wei

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Kevin P. Baker

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Charles E. Birse

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul E. Young

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
George A. Komatsoulis

Inventor's Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul A. Moore

Inventor's Signature: *Daniel R. Soppet* Date: 6/12/01  
Daniel R. Soppet

BOX ASSIGNMENTS  
Case Docket No. PZ042P1

U.S. PATENT AND TRADEMARK OFFICE

JUL 18 2001

08-06-0001

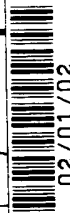


U.S. PATENT AND TRADEMARK OFFICE

RECORDATION OF PATENTS ONLY

101800286

U.S. PTO  
10/060255



To the Honorable Commissioner of Patents and Trademarks.  
Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Craig A. Rosen  
Jian Ni  
Kimberly Florence  
Michele Fiscella  
Ping Wei  
Kevin P. Baker

Charles E. Birse  
Paul E. Young  
George A. Komatsoulis  
Paul A. Moore  
Daniel R. Soppet

07/19/01

2. Name and address of receiving party(ies):

Name: **Human Genome Sciences, Inc.**  
Street Address **9410 Key West Avenue**  
City **Rockville, Maryland 20850**

3. Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

Nature of conveyance

- ☒ Assignment  
☐ Security Agreement  
☐ Other \_\_\_\_\_
- ☐ Merger  
☐ Change of Name

Execution Date: 6/14/01, 6/11/01, 6/18/01, 6/11/01,  
6/12/01, 6/11/01, 6/13/01, 6/27/01, 6/14/01 6/14/01, and  
6/12/01, respectively

Additional name(s) of conveying party(ies) attached?

Yes ☐ No ☒

4. Title **25 Human Secreted Proteins**

5. Application number (s) or patent numbers (s)

If this document is being filed together with a new application,  
the execution date of the application is  
\*\*\*\*\*

A. Patent Application No. (s)

**09/781,417**

B. Patent No.

Additional numbers attached?

Yes ☐ No ☐

6. Name and address of party to whom correspondence concerning documents should be mailed:

**Human Genome Sciences, Inc.**  
**9410 Key West Avenue**  
**Rockville, Maryland 20850**  
**Telephone: 301-309-8504 Facsimile: 301-309-8439**

7. Total of applications and patents involved

1

8. Total Fee (37 CFR 3.41) ..... \$40.00

- ☐ Enclosed (By check in total of filing fee and Assignment Recordation Fee)  
☒ Authorized to be charged to Deposit Account

9. Deposit Account No.

**08-3425**

(Attached duplicated copy of this page if paying by deposit account)

10. If any additional fees due in connection with the recordation of this Assignment, please charge the same to  
Deposit No. **08-3425**

11. Statement and Signature

The best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Kenley K. Hoover

Name of Person Signing

40,302

Registration No.

Signature

July 18, 2001

Date

Total number of pages including cover sheet, attachment, and documents 5

08/03/2001 AAHMD1 00000159 083425 09781417

01 FC:581

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UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

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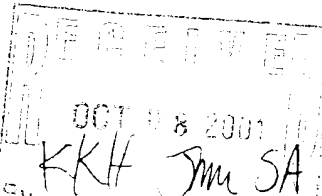
OCTOBER 04, 2001

PTAS

HUMAN GENOME SCIENCES, INC.  
KENLEY K. HOOVER  
9410 KEY WEST AVENUE  
ROCKVILLE, MARYLAND 20850



\*101800286A\*



jc828 U.S. PRO  
10/060255  
02/01/02

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/18/2001

REEL/FRAME: 012029/0515  
NUMBER OF PAGES: 5

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

ROSEN, CRAIG A.

DOC DATE: 06/14/2001

ASSIGNOR:

NI, JIAN

DOC DATE: 06/11/2001

ASSIGNOR:

FLORENCE, KIMBERLY

DOC DATE: 06/13/2001

ASSIGNOR:

FISCELLA, MICHELE

DOC DATE: 06/11/2001

ASSIGNOR:

WEI, PING

DOC DATE: 06/13/2001

ASSIGNOR:

BAKER, KEVIN P.

DOC DATE: 06/11/2001

ASSIGNOR:

BISSE, CHARLES E.

DOC DATE: 06/13/2001

ASSIGNOR:

YOUNG, PAUL E.

DOC DATE: 06/27/2001

ASSIGNOR:

KOMATSOUKIS, GEORGE A.

DOC DATE: 06/14/2001

ASSIGNOR:

MOORE, PAUL A.

DOC DATE: 06/14/2001

ASSIGNOR:

SOPPET, DANIEL R.

DOC DATE: 06/12/2001

ASSIGNEE:

HUMAN GENOME SCIENCES, INC.  
9410 KEY WEST AVENUE  
ROCKVILLE, MARYLAND 20850

SERIAL NUMBER: 09781417

FILING DATE: 02/13/2001

PATENT NUMBER:

ISSUE DATE:

ALLYSON PURNELL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS